

## INDEX TO VOLUME 42

ATKINSON, C., and BOURNE, J. P. Stress Singularities in Viscoelastic Media . . . . .	385
BASSOM, A. P. On the Effect of Crossflow on Nonlinear Görtler Vortices in Curved Channel Flows . . . . .	495
BEBERNES, J., and EBERLY, D. Characterization of Blow-Up for a Semilinear Heat Equation with a Convection Term . . . . .	447
BLOOR, M. I. G., see KING, A. C.	
BOERSMA, J. Note on the Lifting-Surface Problem for a Circular Wing in Incompressible Flow . . . . .	55
BOURNE, J. P., see ATKINSON, C.	
CHANDRASEKHARAIHA, D. S. Complete Solutions in the Theory of Elastic Materials with Voids—II . . . . .	41
CHOI, Y. S., and LUDFORD, G. S. S. An Unexpected Stability Result of the Near-extinction Diffusion Flame for Non-unity Lewis Numbers . . . . .	143
COLTON, D. Far-Field Patterns and the Inverse Scattering Problem for Acoustic Waves in an Inhomogeneous Medium . . . . .	317
COWIN, S. C. Properties of the Anisotropic Elasticity Tensor . . . . .	249
DASSIOS, G., and KLEINMAN, R. E. On the Capacity and Rayleigh Scattering for a Class of Non-Convex Bodies . . . . .	467
DAY, W. A. Temperature Fluctuation and the Extension of a Nonlinear Filament . . . . .	573
DUCK, P. W., and HALL, P. On the Interaction of Tollmien-Schlichting Waves in Axisymmetric Supersonic Flows . . . . .	115
DURBIN, P. A. Stokes Flow Near a Moving Contact Line with Yield-Stress Boundary Condition . . . . .	99
DURST, F., see RASZILLIER, H.	
EBERLY, D., see BEBERNES, J.	
EVANS, D. V. Edge Waves over a Sloping Beach . . . . .	131
FOLK, R. T., see HERCZYNSKI, A.	
FU, Y. B., and SCOTT, N. H. The Evolution Law of One-Dimensional Weak Nonlinear Shock Waves in Elastic Non-conductors . . . . .	23
GLADWELL, G. M. L., WILLMS, N. B., HE, B., and WANG, D. How can we Recognize an Acceptable Mode Shape for a Vibrating Beam . . . . .	303
GLADWELL, I., see GREGORY, R. D.	
GREGORY, R. D., and GLADWELL, I. Axisymmetric Waves in a Semi-Infinite Elastic Rod . . . . .	327
HALL, P., see DUCK, P. W.	



HANSON, M. T., and KEER, L. M. Stress Analysis and Contact Problems for an Elastic Quarter-Plane . . . . .	363
HE, B., see GLADWELL, G. M. L.	
HERCZYNSKI, A., and FOLK, R. T. Orthogonality Condition for the Pochhammer-Chree Modes . . . . .	523
HILL, J. M., and LEE, A. I. Large Elastic Compression of Finite Rectangular Blocks of Rubber . . . . .	267
HILL, J. M., and TORDESILLAS, A. The Pressure Distribution for Symmetrical Contact of Circular Elastic Cylinders . . . . .	581
HWU, C., and TING, T. C. T. Two-Dimensional Problems of the Anisotropic Elastic Solid with an Elliptic Inclusion . . . . .	553
JONES, D. S. A Surface Radiation Condition for Optical Fibres . . . . .	457
KING, A. C., and BLOOR, M. I. G. A Semi-Inverse Method for Free-Surface Flow over a Submerged Body . . . . .	183
KING, J. R. Exact Solutions to some Nonlinear Diffusion Equations . . . . .	537
KEER, L. M., see HANSON, M. T.	
KLEINMAN, R. E., see DASSIOS, G.	
LEE, A. I., see HILL, J. M.	
LIN, H.-C., and NAGHDI, P. M. Necessary and Sufficient Conditions for the Validity of a Work Inequality in Finite Plasticity . . . . .	13
LUDFORD, G. S. S., see CHOI, Y. S.	
MAYNE, G. Geometrical Method in Non-Newtonian Fluid Mechanics . . . . .	239
MELROSE, G., and TWEED, J. The Torsion Problem for a Hollow Circular Cylinder containing a Symmetric Array of Radial Cracks . . . . .	289
NAGHDI, P. M., see LIN, H.-C.	
NORBURY, J., and STUART, A. M. A Model for Porous-Medium Combustion . . . . .	159
NORRIS, A. N. On the Acoustic Determination of the Elastic Moduli of Anisotropic Solids and Acoustic Conditions for the Existence of Symmetry Planes . . . . .	413
OĞUZ, H. H., and SADHAL, S. S. Fluid Dynamics and Stability Analysis of a Compound Droplet in an Electric Field . . . . .	65
PACKHAM, B. A. A Note on Generalized Edge Wave on a Sloping Beach . . . . .	441
PIPKIN, A. C., see STEIGMANN, D. J.	
RASZILLIER, H., and DURST, F. Short-distance Asymptotics of the Added-Mass Matrix of Two Spheres of Equal Diameter . . . . .	85
RILEY, N., and VASANTHA, R. An Unsteady Stagnation-Point Flow . . . . .	511
RILEY, N. Heat Transfer in Jeffrey-Hamel Flow . . . . .	203



SADHAL, S. S. Heat Transport to a Slowly Growing Bubble on a Solid Surface . . . . .	477
SADHAL, S. S., see OĞUZ, H. H.	
SANTOSA, F. On Elastodynamic Problems in Infinite Cylinders . . . .	339
SAWATZKY, R. P., see SWATERS, G. E.	
SCARPETTA, E. Some Results on Well-posedness for a Nonlinear Theory of Micropolar Elastostatics . . . . .	1
SCOTT, N. H., see FU, Y. B.	
STEIGMANN, D. J., and PIPKIN, A. C. Finite Deformations of Wrinkled Membranes . . . . .	427
STUART, A. M., see NORBURY, J.	
SWATERS, G. E., and SAWATZKY, R. P. Viscoelastic Modulation of Solitary Pressure Pulses in Nonlinear Fluid-Filled Distensible Tubes . . . . .	213
TING, T. C. T., see HWU, C.	
TORDESILLAS, A., see HILL, J. M.	
TWEED, J., see MELROSE, G.	
VASANTHA, R., see RILEY, N.	
WANG, D., see GLADWELL, G. M. L.	
WILLIAMS, W. E. Related Diffraction Problems . . . . .	179
WILLMS, N. B., see GLADWELL, G. M. L.	